

#### ABSTRACT OF THE DISCLOSURE

A camera signal processing apparatus comprises an interpolated pixel data generating means for interpolating, at least on two directions, pixel data based on an imaging signal from a solid-state image sensor in which an imaging light enters through a color filter having a different spectral characteristic for each pixel separately generating interpolated pixel data in the at least two directions; a correlation detecting means for detecting a correlation value indicative of a degree of correlation in each of the at least two directions of the interpolated pixel data; a normalizing means for normalizing the correlation value of each of the at least two directions to generate a normalized value indicative of a relative value of the correlation value of each of the at least two directions; a correcting means for adding a predetermined correction value to the normalized value; a weighting means for weighting the interpolated pixel data in each of the at least two directions by the normalized value and adding together the weighted interpolated pixel data in all of the at least two directions; and an image generating means for generating an image based on the interpolated pixel data weighted by the weighting means.